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In Re Application of
Maria Anna Wubben et al.

Serial No. 08/776,321

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Art Unit: 1761

For: PECTINS AS FOAM STABILIZERS FOR BEVERAGES HAVING A
FOAM HEAD

DECLARATION of Alexandra J.M. Wijsman

Alexandra Johanna Mathilda Wijsman herewith declares
as follows:

1. I presently reside at Hondsdraveld 23, 3448
EC Woerden, the Netherlands.

2. I am an employee of Heineken Technical
Services B.V. at Zoeterwoude, the Netherlands, the assignee
of the present invention. I am a graduate of the Agricultural
University of Wageningen, with a specialization in food
technology. For about three years I have been involved in
research on raw materials for the production of beer, such as
polysaccharides.

3. In order to determine the effect of the type
of pectin on foam stability, an experiment was conducted
comparing beet-pectin with hop-pectin. I conducted part of
the experiment; the other parts were conducted in my
presence. The experiments and results are described as
follows.

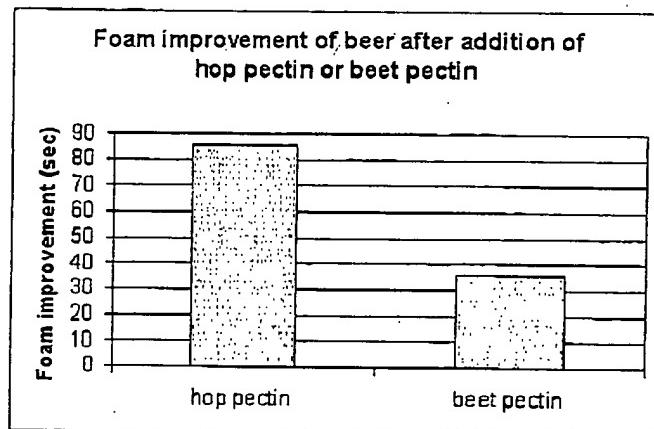
4. Pectin preparations containing beet pectin or
hop pectin were dissolved in 5 ml water before being added to

beer in an amount of 30 mg/bottle (approximately 10 g per hectolitre). The bottles were shaken for 48 hours at room temperature. The foam stability was then determined using the Nibem foam meter.

5. The results of the test were as follows.

Comparison of foam improvement capability of hop pectin and beet pectin in beer

Sample	Foam stability (sec)				Average (sec)	Foam improvement (sec)
control	257	249	252	253	253	
hop pectin	349	335	332	337	338	85
beet pectin	284	284	293	293	289	36



6. The results of the test were surprising and unexpected. It was surprising and unexpected that hoppectin would improve the foam stability of beer by more than twice as many seconds as beet pectin.

7. The undersigned declares that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the document, or application, or any patent issuing thereon.

Signed this 15 day of December, 1998

By 
Alexandra J.M. Wijsman